

Public Notice

Public Notice No. Open Date: Close Date: LRL-2016-762-pjl 9 May 2017 8 Jun 2017

Phone: 502-315-6693

Please address all comments and inquiries to: U.S. Army Corps of Engineers, Louisville District ATTN: Ms. Pam Loeffler, CELRL-RDS, Rm 752

P.O. Box 59

Louisville, Kentucky 40201-0059

This notice announces an application submitted for a Department of the Army (DA) Permit, subject to Section 10 of the Rivers and Harbors Act of 1899 and Section 404 of the Clean Water Act:

APPLICANT: Kentucky River Authority

5 Fountain Place Frankfort, KY 40601

AGENT: Stantec Consulting Services Inc.

10509 Timberwood Circle Louisville, KY 40223

LOCATION: Kentucky River, Mile 176.4, at the border of Madison and Clark

Counties in Kentucky

Latitude: 37.89514 Longitude: -84.26289

7.5 Minute Quad: KY-Ford

PURPOSE: Renovate Lock and Dam No. 10 to provide navigation, improve

safety, and maintain the pool elevation of the river for utilities and

other users.

EXISTING CONDITIONS: The original lock and dam were constructed between 1902 and 1907, and have undergone various maintenance and renovation projects in the past. The lock is currently non-operational. Dam No. 10 consists of a Main Dam (crest elevation 565.1 feet (ft)) and an Auxiliary Dam (crest elevation 571.1 ft).

DESCRIPTION OF WORK: The applicant proposes to renovate the existing lock and dam structures. The new Main Dam and Auxiliary Dam both would be constructed from concrete-filled sheet pile cells at the same controlling elevations as the existing dam. The replacement structures would be located just upstream of the current structures, with the Main Dam set approximately 45 feet clear of the existing dam. Construction would be sequenced to allow for removal of the existing Auxiliary Dam structure after the construction of the new dam. The existing Main Dam would remain in place.

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Several existing structures, including the Auxiliary Dam would be demolished, resulting in approximately 125,000 cubic yards (CY) of material being dredged, excavated, or demolished from below the 1% annual chance floodplain elevation of 593.8 ft. Approximately 77,000 CY of this material would be disposed of just to the west of the dam and below the 1% chance annual floodplain elevation, resulting in the filling in of 0.197 acre of palustrine emergent wetlands. The remainder of the dredged, excavated, or demolished material (48,000 CY) would be disposed of off-site or on-site above the 1% annual chance floodplain elevation.

Approximately 69,000 CY of new concrete and riprap material would be installed below the Ordinary High Water (OHW) mark of 574.0 ft to construct the dam and stabilize the adjacent banks. A total of 108,000 CY of material would be removed from below the OHW.

In total, the project would result in a net estimated fill of 15,000 CY of material placed below the 1% annual chance floodplain, and a net cut of 39,000 CY from below the OHW.

The proposed project would result in the placement of fill in the Kentucky River in the form of concrete sheet pile cells. The proposed fill length is 60 linear feet (lft) (approximately equal to the new dam width, not including slope stabilization).

Approximately 8,400 CY of riprap and 3,500 CY of derrick stone is proposed to be placed on the adjacent banks for stabilization purposes.

Lock renovations may occur on the existing structures in their current location, provided funding becomes available. Construction equipment would be staged on an existing cleared terrace on the west bank of the project site to minimize bank disturbance. Construction equipment and personnel would complete the work from the banks or from barges located in the Kentucky River.

AVOIDANCE, MINIMIZATION, AND MITIGATION MEASURES: The applicant proposes to mitigate impacts to adjacent wetlands through an In-lieu Fee Program purchase at a rate of 2:1 to compensate for impacts to 0.197 acre of palustrine emergent wetlands.

It is noted that this proposed mitigation plan is open to comment and subject to change. The Corps will make a determination of appropriate mitigation, upon review of all submitted information.

REVIEW PROCEDURES: A DA Permit cannot be issued if any legally required Federal, State, or local authorization or certification is denied. A DA permit, if otherwise warranted, will not be issued until a State of Kentucky Water Quality Certification or waiver is on file at this office. In order to comply with Section 401 of the Clean Water Act, the applicant must apply for State certification from the Kentucky Energy and Environment Cabinet Division of Water (KDOW).

Copies of this notice are sent to the appropriate Federal and State Fish and Wildlife Agencies. Their views and comments are solicited in accordance with the Fish and Wildlife Coordination Act of 1956. Based on available information, the proposed activity will not destroy or endanger

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any Federally-listed threatened or endangered species or their critical habitats, as identified under the Endangered Species Act, and therefore, initiation of formal consultation procedures with the U.S. Fish and Wildlife Service is not planned at this time.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. A request for a public hearing must state the specific interest which might be damaged by issuance of the DA Permit.

The National Register of Historic Places has been examined, and it has been determined that there are no properties currently listed on the Register which would be directly affected by the proposed work. However, we are currently reviewing archaeological survey and cultural historic resource survey reports provided by the applicant. If we are made aware, as a result of our review of the reports, comments received in response to this notice, or by other means, of specific archaeological, scientific, prehistoric, or historical sites or structures which might be affected by the proposed work, the District Engineer will immediately take the appropriate action necessary pursuant to the National Historic Preservation Act of 1966 – Public Law 89-665 as amended (including Public Law 96-515).

The decision whether to issue a permit will be based on an evaluation of the probable impact of the proposed activity on the public interest. That decision will reflect the national concern for both protection and utilization of important resources. The benefits which reasonably may be expected to accrue from the proposal must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the proposal will be considered; among those are conservation, economics, aesthetic values, general environmental concerns, historic values, fish and wildlife values, flood damage prevention, land use, navigation, recreation, water supply, water quality, energy needs, safety, food production, and in general, the needs and welfare of the public. In addition, the evaluation of the impact of the activity on the public interest will include application of the guidelines (40 CFR Part 230) promulgated by the Administrator, United States Environmental Protection Agency, under authority of Section 404(b) of the CWA.

The Corps of Engineers is soliciting comments from the public; Federal, State, and local agencies and officials; Indian tribes; and other interested parties in order to consider and evaluate the impacts of this proposed activity. It is presumed that all interested parties and agencies will wish to respond; therefore, a lack of response will be interpreted as meaning that there is no objection to the proposed project. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this proposal. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the proposed activity.

Written statements received in this office on or before the closing date will become a part of the official record and will be considered in the determination on this permit request. Any

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objections which are received during this period will be forwarded to the applicant for possible resolution before the determination is made whether to issue or deny the requested DA Permit. A permit will be granted unless its issuance is found to be contrary to the public interest.

Information pertaining to this application is available for public examination during normal business hours upon prior request. Drawings are available on Louisville District's Internet site at http://www.lrl.usace.army.mil/Missions/Regulatory.aspx. All comments regarding this proposal should be addressed to Ms. Pam Loeffler, CELRL-RDS at the address noted above and should refer to the Public Notice Number LRL-2016-762-pjl.

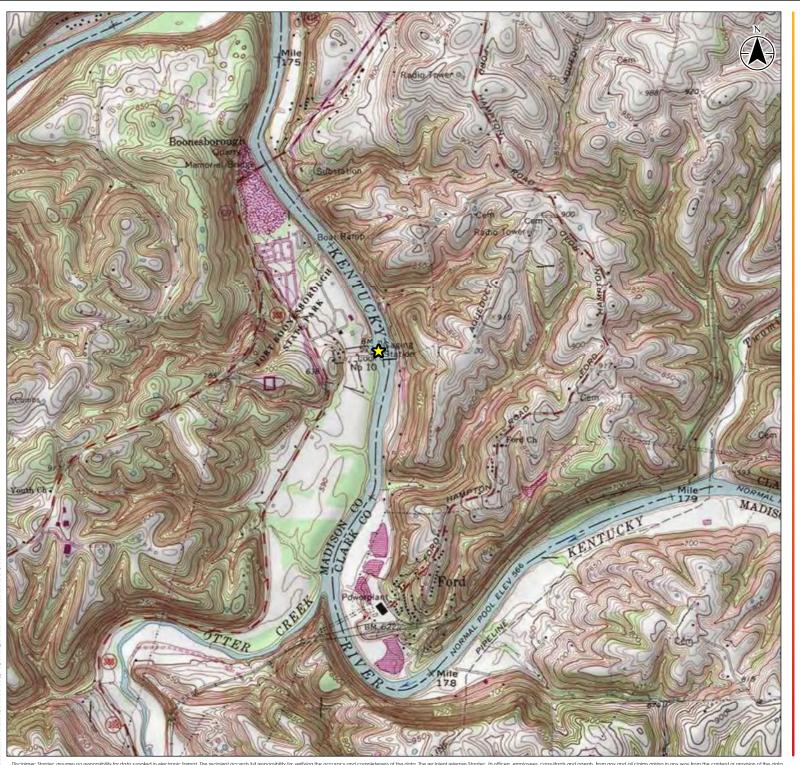
If you desire to submit your comments by email, you must comply with the following:

a) In the subject line of your email, type in **ONLY** the Public Notice ID No. LRL-2016-762-pjl.

Example:

Subject: LRL-2016-762-pjl

- b) Provide your physical mailing address and telephone number.
- c) Send your email to: lrl.regulatorypubliccomment@usace.army.mil.
- d) If you are sending attachments greater than 1 Mb in size with your email, you must send a hard copy (CD or paper) to the Corps' physical address as well.





0 1,000 2,000 Feet

Notes

Coordinate System: NAD 1983 StatePlane Kentucky FIPS 1600 Feet

Project Location: 175565264

Madison/Clark County, Kentucky Prepared by LMB on 2016-03-08

Technical Review by RD pn 2016-03-08

Client/Project

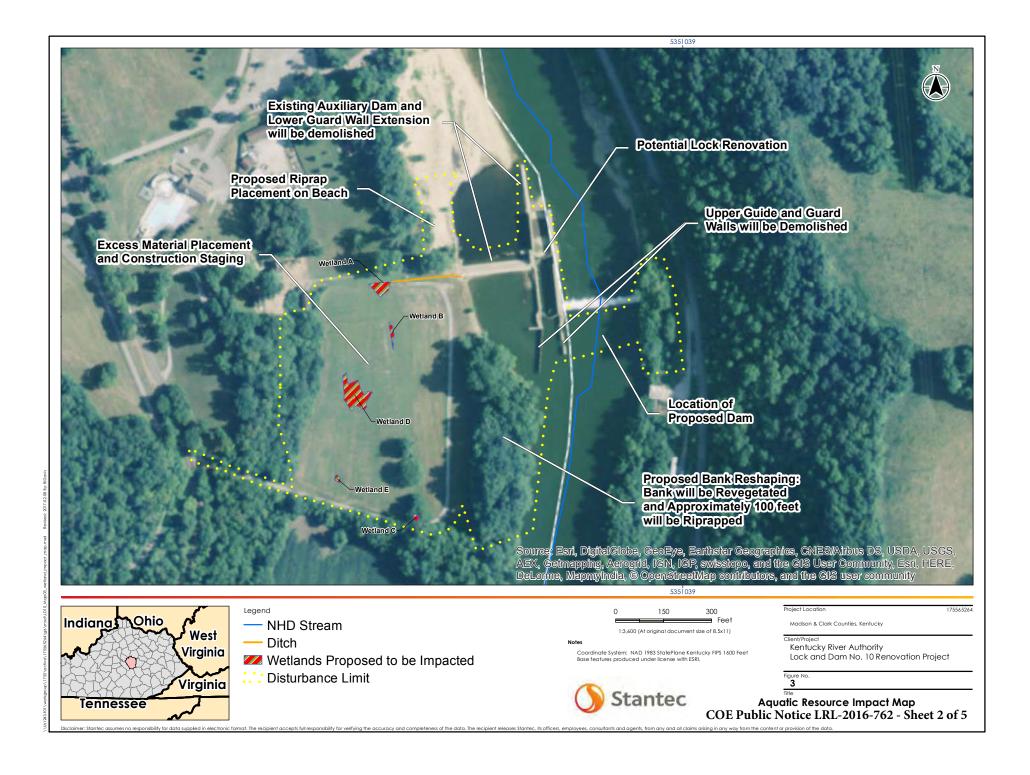
Kentucky River Authority Kentucky River Lock and Dam No. 10 Renovation Project

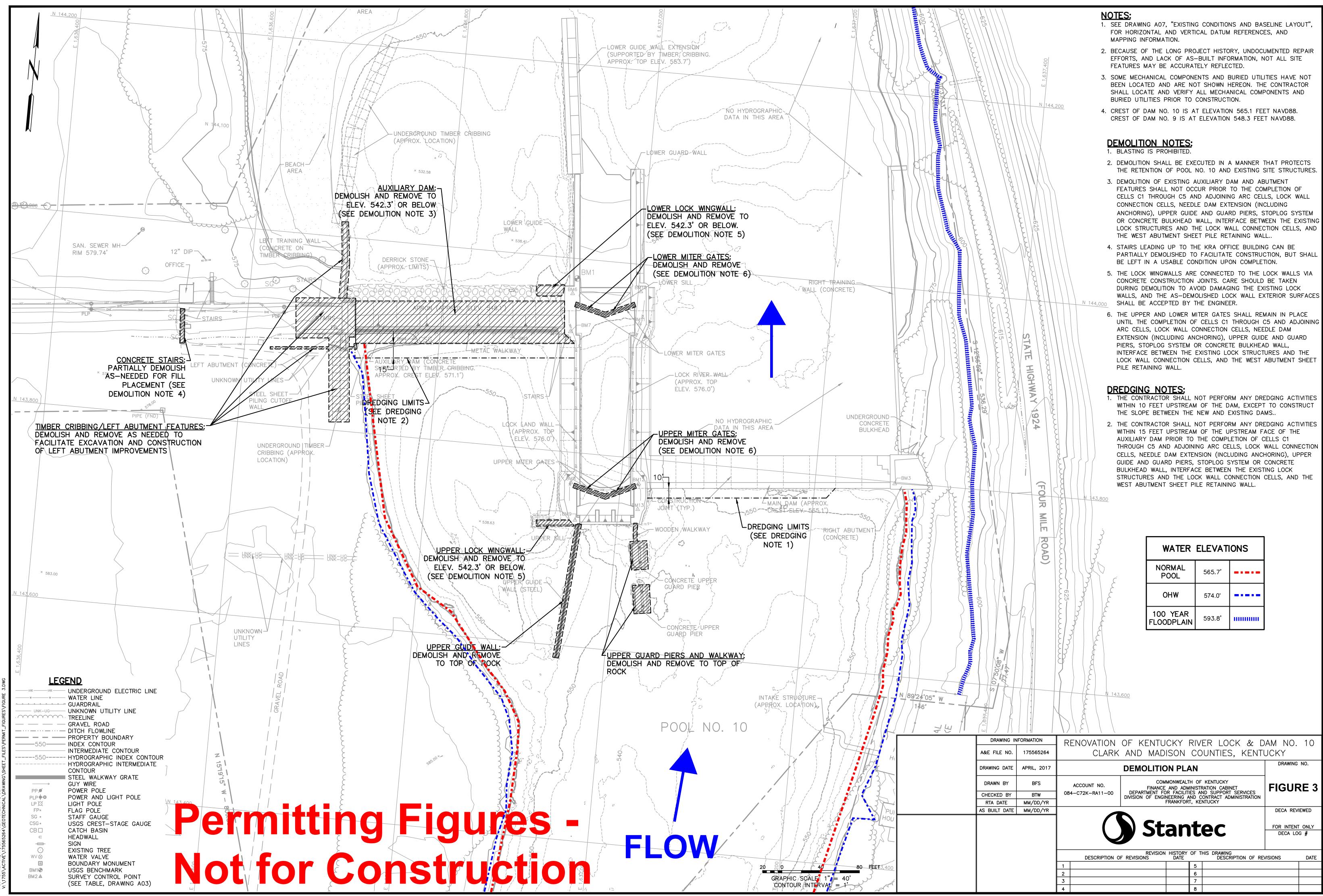
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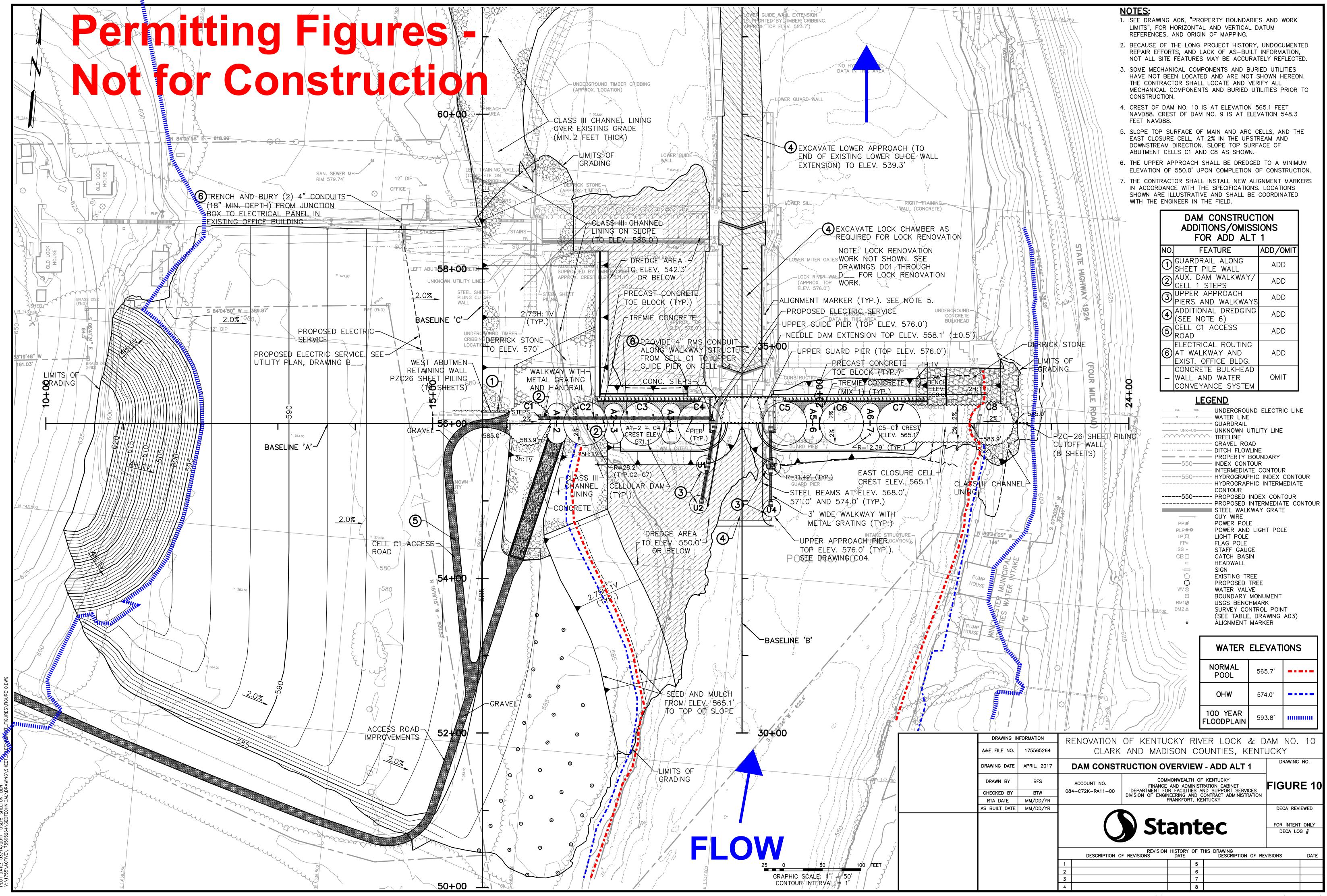
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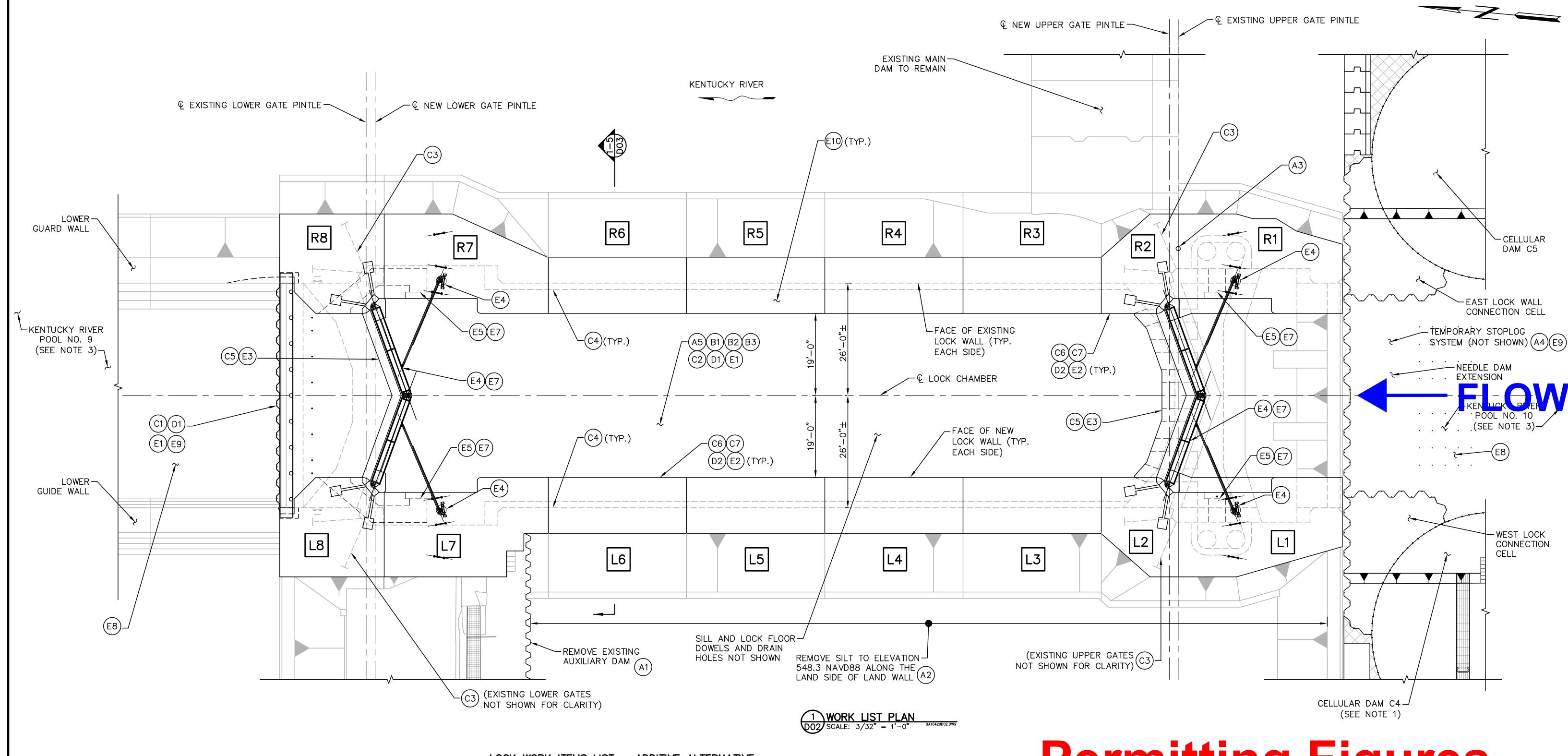
USGS Topo Location Map

COE PUBLIC NOTICE LRL-2016-762 SHEET 1 OF 5









ADDITIVE ALTERNATIVE:

SHOULD ADDITIVE ALTERNATIVE BE AWARDED, THE CONTRACTOR SHALL DEDUCT THE BULKHEAD WALL WORK AT UPPER LOCK GATE AND ADD RENOVATION OF THE EXISTING LOCK (REFER TO WORK ITEMS ON THIS DRAWING).

NOTES:

- 1. PRIOR TO PERFORMING WORK ON THE LOCK STRUCTURE, CONSTRUCTION OF NEW AUXILIARY DAM AND TIE-IN TO LOCK LAND WALL SHALL BE COMPLETED.
- 2. REWATER THE LOCK AS REQUIRED TO CONDUCT PERFORMANCE TESTING. ADDITIONAL DEWATERING OF THE LOCK CHAMBER MAY BE REQUIRED UPON UNSUCCESSFUL LOCK AND GATE PERFORMANCE TESTING. ANY ADDITIONAL DEWATERING AND SUBSEQUENT GATE PERFORMANCE TESTING SHALL BE CONDUCTED AT NO ADDITIONAL COST TO THE OWNER.
- 3. CREST OF DAM NO. 10 IS AT ELEVATION 565.1' NAVD88. THE CREST OF DAM NO. 9 IS AT ELEVATION 548.3' NAVD88. POOL ELEVATIONS VARY.

LOCK WORK ITEMS LIST - ADDITIVE ALTERNATIVE:

THIS LIST PRESENTS AN ABBREVIATED SUMMARY OF THE WORK TO BE PERFORMED UNDER THIS CONTRACT. THIS IS INTENDED TO GIVE THE CONTRACTOR A GENERAL DESCRIPTION OF THE WORK INVOLVED AND IS NOT A COMPLETE LISTING OF ALL WORK TO BE PERFORMED. PERFORM ALL WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, INCLUDING WORK ITEMS NOT SPECIFICALLY HIGHLIGHTED IN THIS WORK ITEMS LIST. NUMBERING WITHIN EACH STAGE DOES NOT NECESSARILY INDICATE REQUIRED SEQUENCE, EXCEPT AS OTHERWISE NOTED.

STAGE A

- A1 DRAW DOWN WATER LEVEL TO LOW POOL (POOL NO. 9) AND BREACH
- EXISTING AUXILIARY DAM (SEE DWG. DO3) A2 REMOVE SEDIMENT ALONG LAND SIDE OF LAND WALL A3 INSTALL AND CURE POST-INSTALLED SHEAR KEY (SEE DWG. DXX)
- A4 INSTALL STOPLOGS AT NEEDLE DAM EXTENSION (SEE DWG. DXX) A5 REMOVE SEDIMENT AND DEBRIS FROM LOCK CHAMBER AND UPPER

STAGE B

END (SEE DWG. D09)

- DRILL AND GROUT SILL AND LOCK FLOOR DOWELS INTO ROCK AND
- INSTALL TREMIE PLACEMENT BARRIER (SEE DWG. DO4) B2 PLACE AND CURE TREMIE CONCRETE WITHIN BASE OF LOCK
- CHAMBER (SEE DWG. D04)
- B3 DRILL SILL AND LOCK FLOOR DRAIN HOLES INTO ROCK (SEE DWG.

STAGE C

- C1 INSTALL LOWER LOCK DEWATERING BULKHEAD (SEE DWG. D05)
- C2 DEWATER LOCK CHAMBER
- C3 REMOVE AND DISPOSE OF EXISTING MITER GATES, ANCHORAGES, AND PINTLES C4 REMOVE AND DISPOSE OF LOCK WALL CONCRETE AT EXISTING LOCK
- CHAMBER MONOLITHS L1-L8 AND R1-R8 (SEE DWGS. D08 THROUGH D10) C5 REMOVE AND DISPOSE OF CONCRETE AT EXISTING MITER GATE SILLS (SEE DWG. D10)
- C6 PLACE REINFORCEMENT AND DRILL AND GROUT LOCK WALL REINFORCING DOWELS (SEE DWG. DXX)

C7 INSTALL AND SECURE PRECAST MONOLITH JOINT PANELS AND LOCK WALL FORMWORK (SEE DWG. DXX)

STAGE D D1 REWATER LOCK CHAMBER AND REMOVE LOWER BULKHEAD SHEETS

STAGE E E1 REINSTALL LOWER BULKHEAD SHEETS AND DEWATER LOCK CHAMBER

E2 RECONSTRUCT (PRIMARY CONCRETE) REMAINDER OF LOCK CHAMBER

- MONOLITHS L1-L8 AND R1-R8 (SEE DWGS. D12 THROUGH D18) E3 RECONSTRUCT (SECONDARY CONCRETE) MITER GATE SILLS AND
- E4 INSTALL NEW MITER GATES, OPERATING EQUIPMENT, AND MACHINERY (SEE DWGS. DXX THROUGH DXX)
- E5 INSTALL LOCK FILLING AND EMPTYING SYSTEMS (SEE DWG. DXX)
- E6 INSTALL NEW LOCK ELECTRICAL SYSTEM (NOT SHOWN) E7 PERFORMANCE TEST NEW MITER GATES AND LOCK FILLING AND
- EMPTYING SYSTEM (SEE NOTE 2) E8 REMOVE SEDIMENT FROM LOCK APPROACHES

QUOINS (SEE DWGS. D17 THROUGH D19)

D2 PLACE AND CURE LOCK WALL TREMIE CONCRETE

E9 REMOVE DEWATERING BULKHEADS AND STOPLOGS E10 INSTALL LOCK APPURTENACES (NOT SHOWN)

<u>LEGEND</u> INDICATES LAND WALL MONOLITH NUMBER INDICATES RIVER WALL MONOLITH NUMBER GRAPHIC SCALE: 3/32" = 1'-0"

Permitting Figures - Not for Construction

ľ	DRAWING INFORMATION		RENOVATION OF KENTUCKY RIVER LOCK & DAM						DAM NO	. 10	
	A&E FILE NO.	175565264	CLARK AND MADISON COUNTIES, KENTUC								
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